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## ABSTRACT

10           A method for assaying a sample for the presence of a target is provided. The  
method comprises drawing a liquid sample transversely through a filter using an  
automated device that can control the rate of flow through the filter. A sensor molecule  
is attached to the filter which can bind to a target molecule. Binding of the target to the  
attached sensor molecule can then be detected through any of various techniques. The  
15   methods may be performed in multiplex form to permit simultaneous analysis of a  
plurality of targets. Kits for performing the methods are also provided.